

Claims

1. A perforation gun having an outer gun barrel (1),
arranged in the interior of which there are
perforators (10) that can be ignited by way of a
5 fuse (11) leading through the gun barrel (1) and after
ignition pierce the gun barrel (1) at penetration
holes (13), wherein means are provided for the
automatic closure of the penetration holes (13),
characterised in that the means for the automatic
10 closure comprise cartridges with a swellable two-
component foam and these cartridges are arranged in
the gun barrel (1) and can be broken up by means of
the ignited fuse (11), as a result of which foam
emerges out of the cartridges, swells up and blocks
15 the penetration holes (13).
2. A perforation gun according to claim 1, characterised
in that a cartridge is arranged next to each
perforator (10).
3. A perforation gun having an outer gun barrel (1),
20 arranged in the interior of which there are
perforators (10) that can be ignited by way of a
fuse (11) leading through the gun barrel (1) and after
ignition pierce the gun barrel (1) at penetration
holes (13), wherein means are provided for
25 automatically closing the penetration holes (13), and
these means comprise a sliding tube (4) which can be
displaced by means of an adjusting arrangement by at
least the diameter of the penetration hole (13) after
the penetration, characterised in that the sliding
30 tube (4) is arranged coaxially between the
perforators (10) and the gun barrel (1).
4. A perforation gun according to claim 3, characterised
in that the sliding tube (4) is fixed in its starting
position by way of a securing element (7) that breaks

up after ignition of the fuse (11) and enables the displacement of the sliding tube (4).

5. A perforation gun according to claim 3 or 4,
characterised in that the adjusting arrangement is a
5 tensioned spring.
6. A perforation gun according to one of claims 3 to 5,
characterised in that the adjusting arrangement is a
pyrotechnic element that can be ignited by means of
the fuse (11).
- 10 7. A perforation gun according to one of claims 3 to 6,
characterised in that the sliding tube (4) is closed
on the side to which it is to be displaced and is open
on the other side and as a result can be displaced
like a plunger by means of the pressure building up as
15 a result of the ignition of the perforators (10).
8. A perforation gun according to one of claims 3 to 7,
characterised in that the sliding tube (4) has a wall
thickness that permits radial expansion and thus
fixation in the gun barrel (1) after the sliding
20 tube (4) has been displaced as a result of the
pressure that has built up in the gun barrel (1) after
the ignition of the perforators (10).
9. A perforation gun according to one of claims 3 to 8,
characterised in that a fluid is arranged between the
25 sliding tube (4) and the gun barrel (1).